

Fig. 1 is a schematic diagram of a network architecture. The diagram shows a central cloud (30) connected to two main horizontal lines (20). The left line (20) is connected to a series of four server racks (16) and a switch (12). The right line (20) is connected to a series of four server racks (14) and a switch (22). The server racks (16) and (14) are connected to the lines (20) via switches (18). The central cloud (30) is connected to the lines (20) via switches (12) and (22). The diagram is labeled with reference numerals 5, 12, 14, 16, 18, 20, 22, and 30.

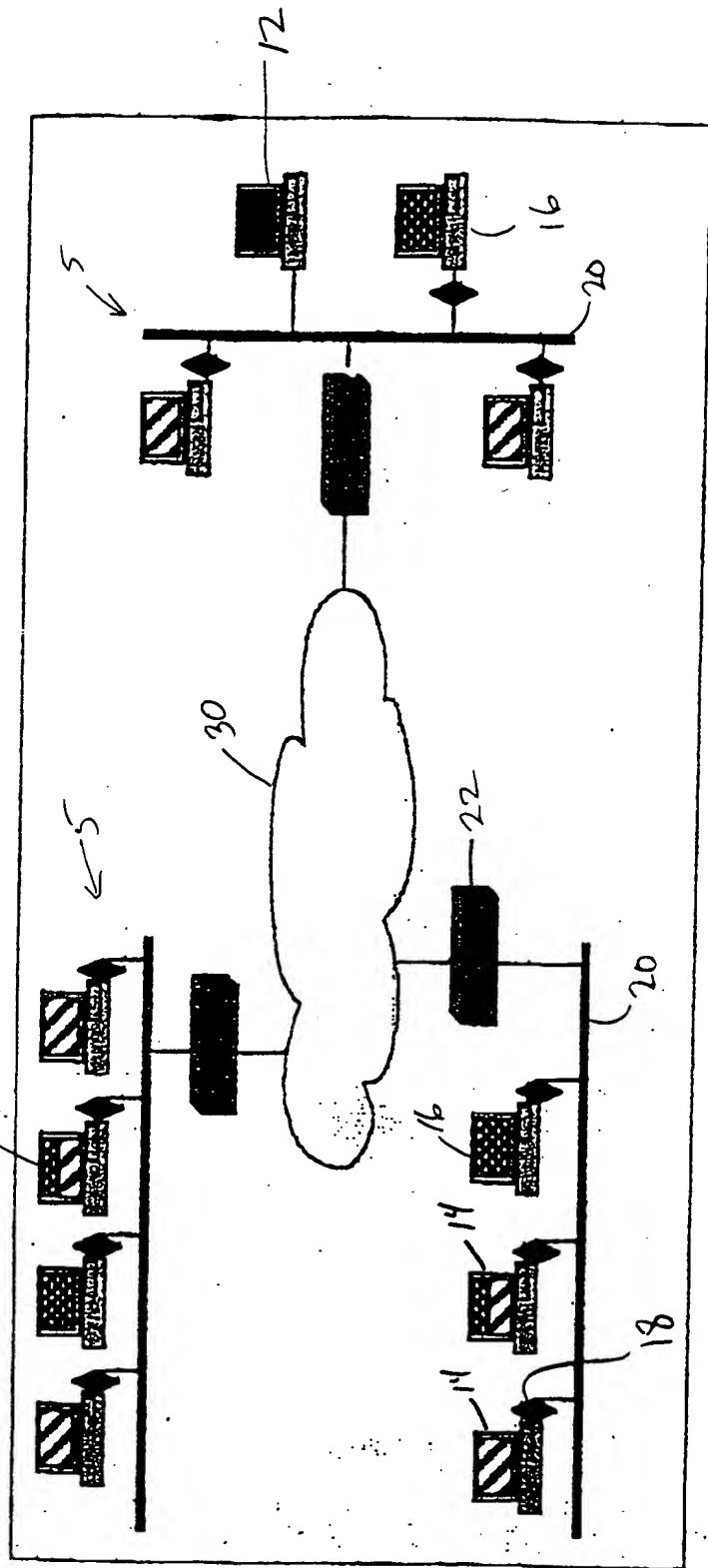


Fig 1

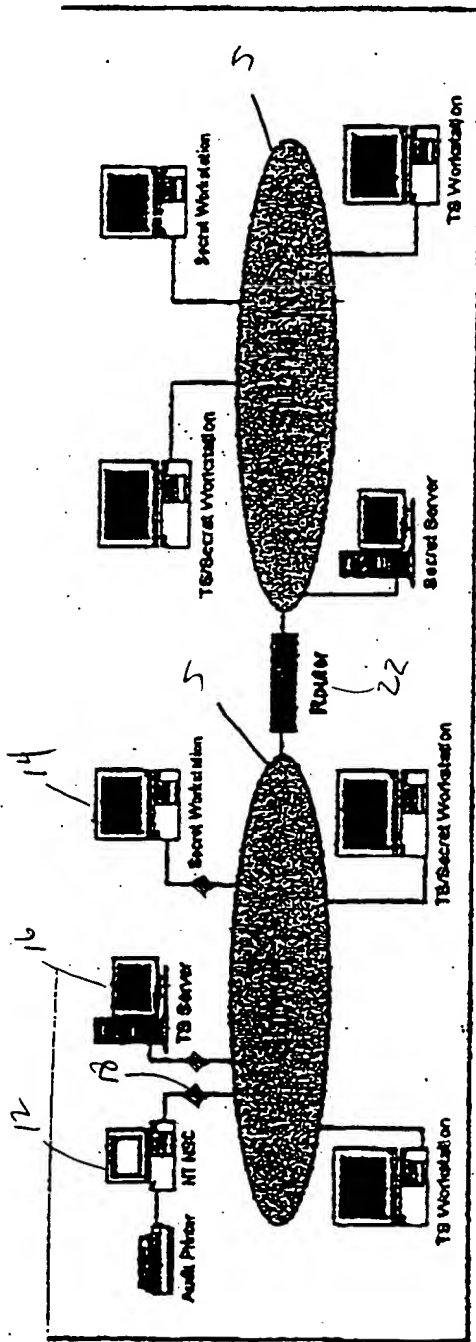


Figure 2

FIG. 3 is a block diagram of a network system. The system includes a Network Security Controller (NSC) 12, an Ethernet LAN 14, a Router 22, a TIR LAN 16, and Ethernet 2 LAN 18. The NSC 12 is connected to the Ethernet LAN 14. The Ethernet LAN 14 includes hosts H1, H2, H3, and H4, and servers TS and S-TS. The Router 22 is connected to the Ethernet LAN 14 and the TIR LAN 16. The TIR LAN 16 includes hosts H5, H6, H7, H8, H9, and H10, and servers TS and S-TS. The Router 22 is also connected to the Ethernet 2 LAN 18. The Ethernet 2 LAN 18 includes hosts H11 and H12, and servers TS and S-TS. The Router 22 is connected to the Internet 30. The Internet 30 is connected to the Router 22 and the Ethernet 2 LAN 18.

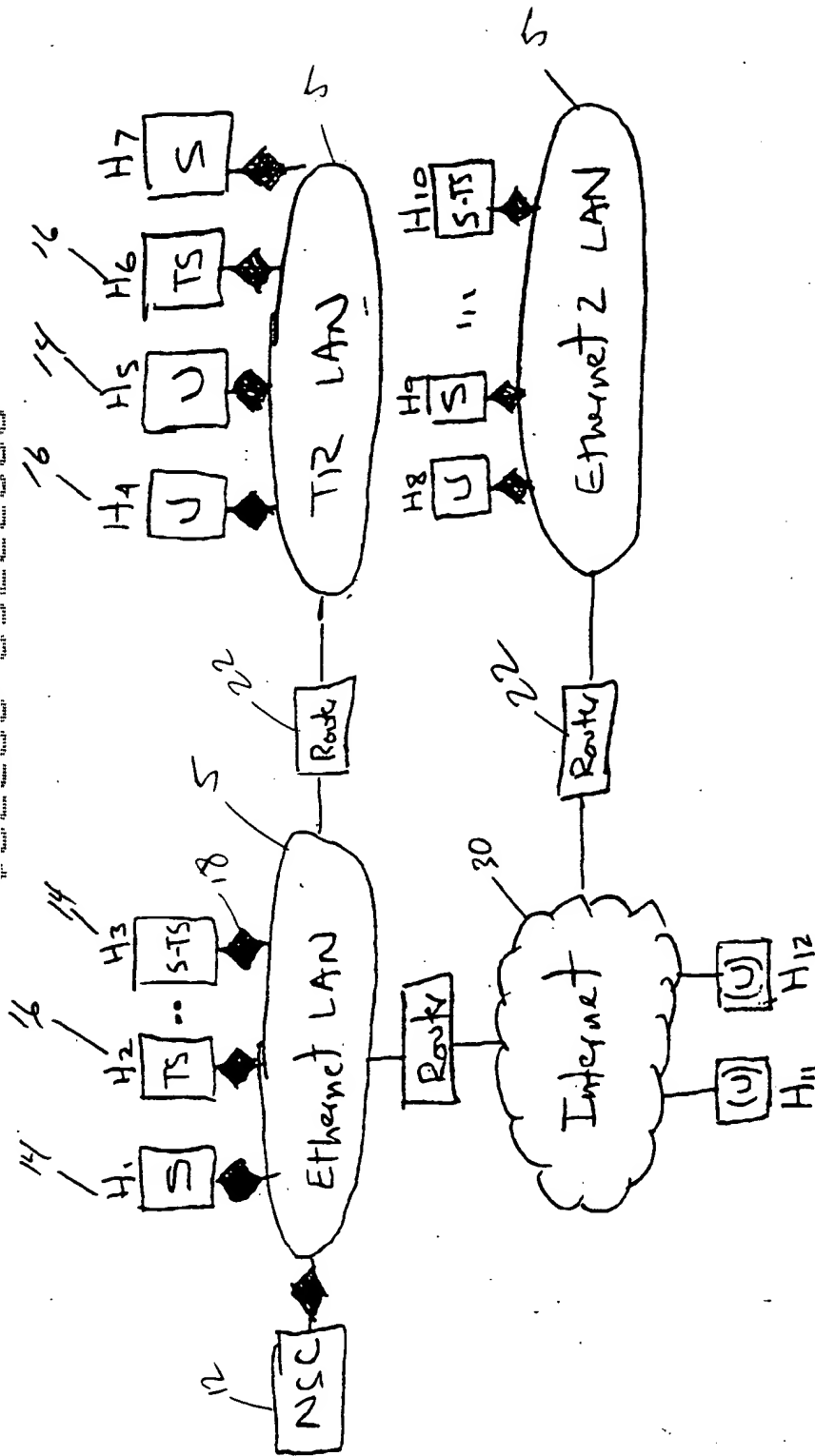


Figure 3

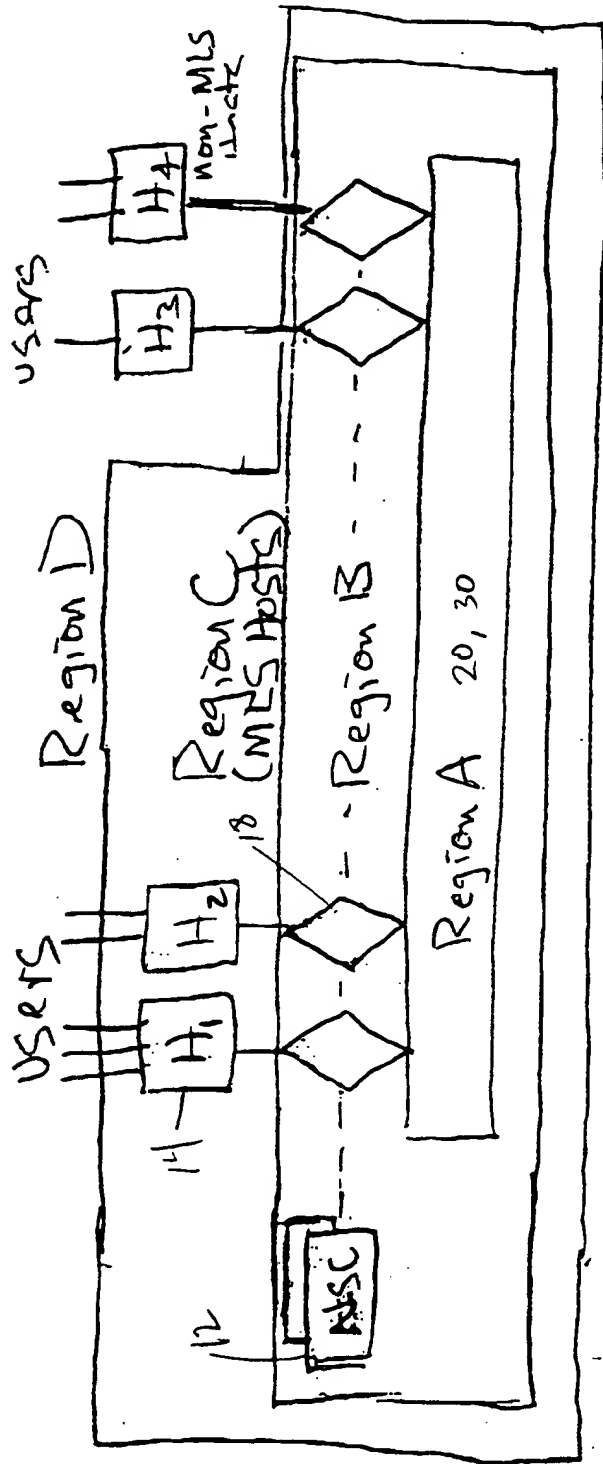
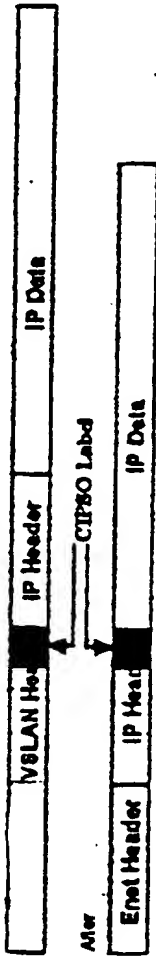


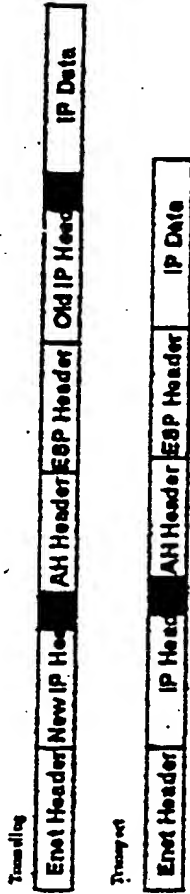
Figure 4

73393 032255

CIPSO Labelling



Host to Host Communication



Control Communication

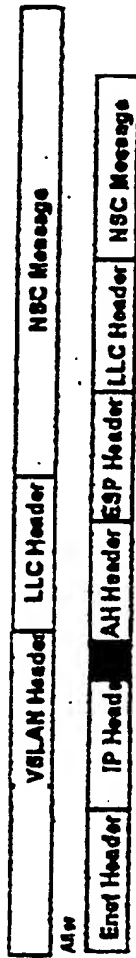


Figure 5

256 Levels

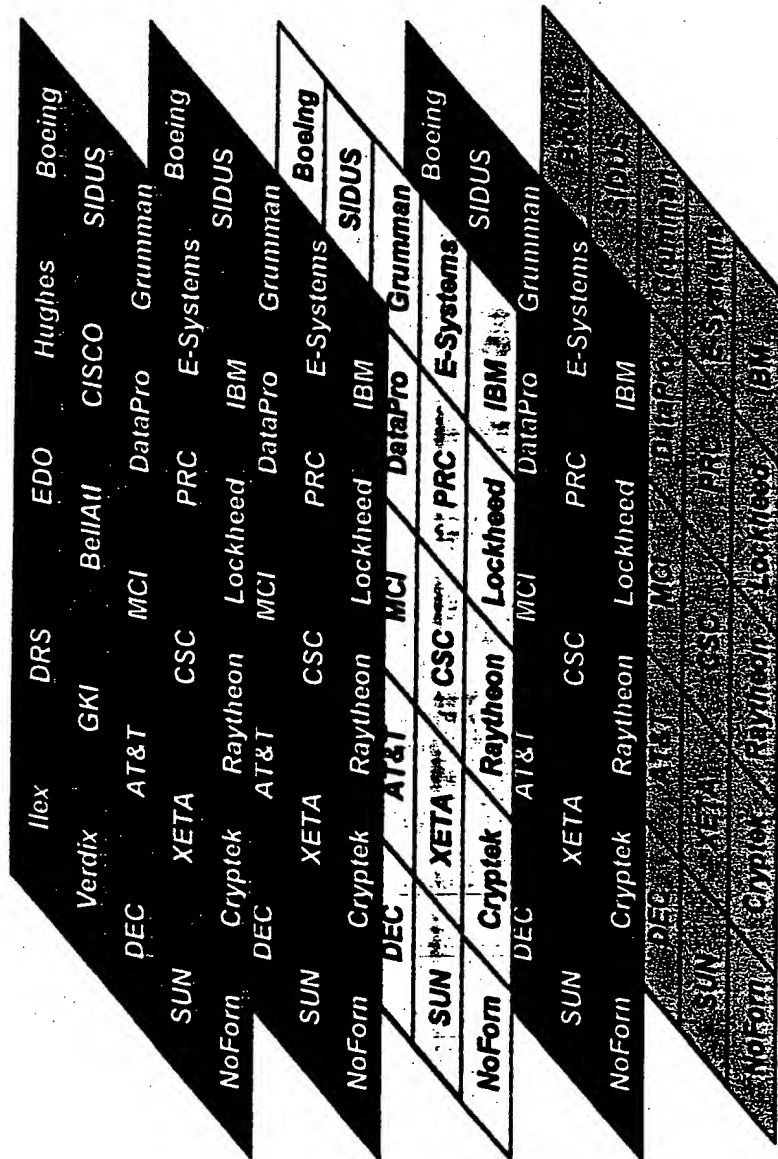
Top Secret

Secret

Proprietary

SBU

Unclassified



65,535 Categories

Figure 6

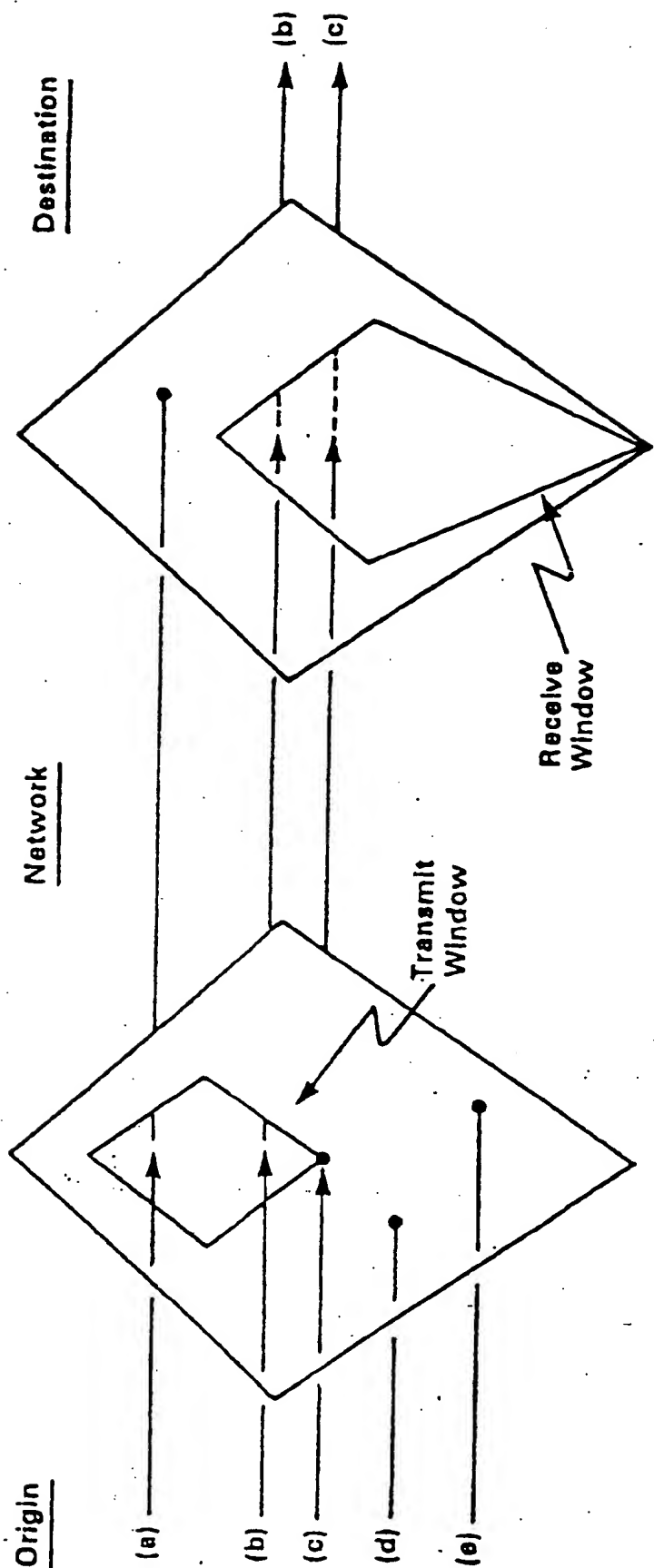


Figure 7

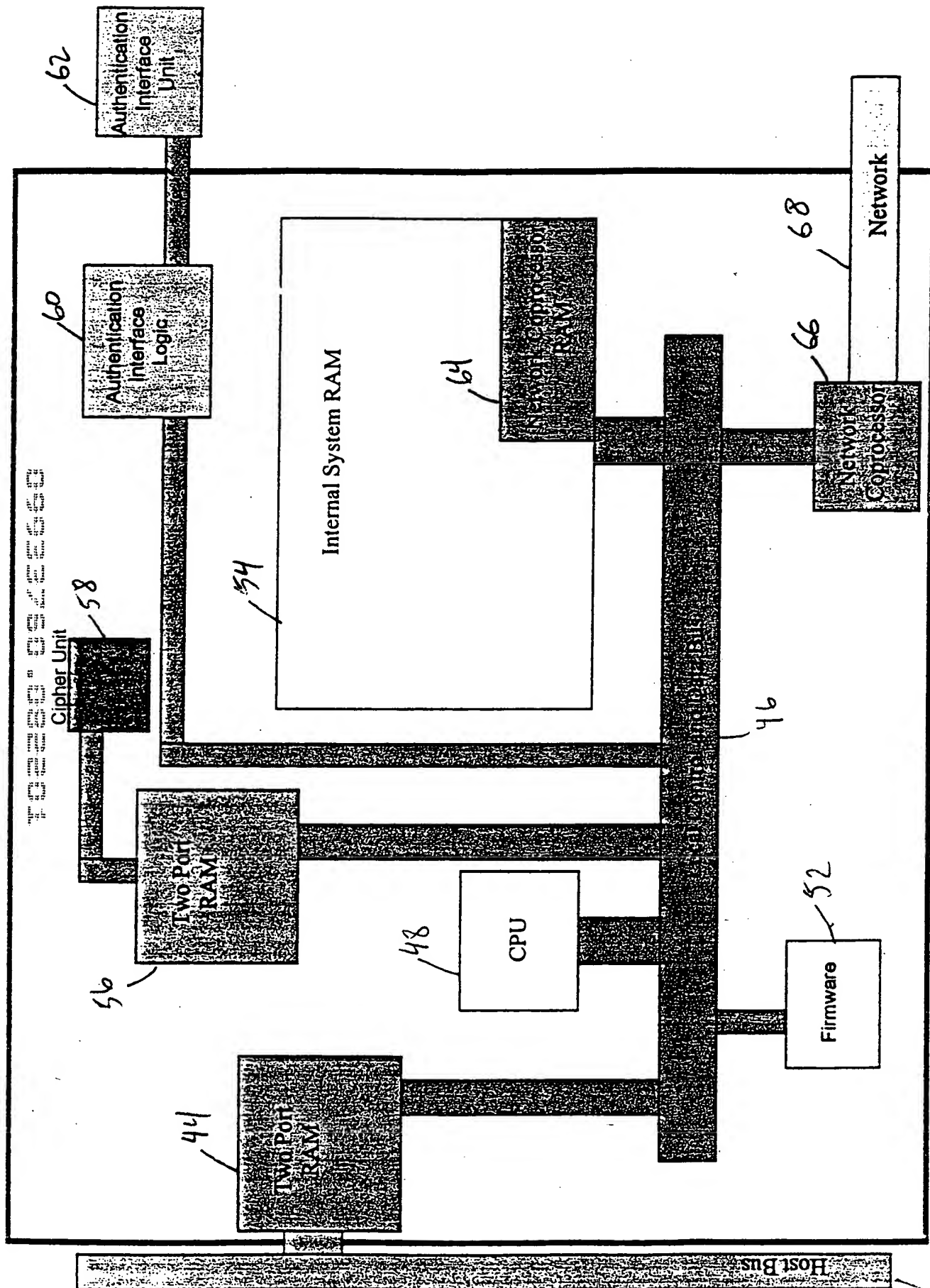


Fig. 8

40

42

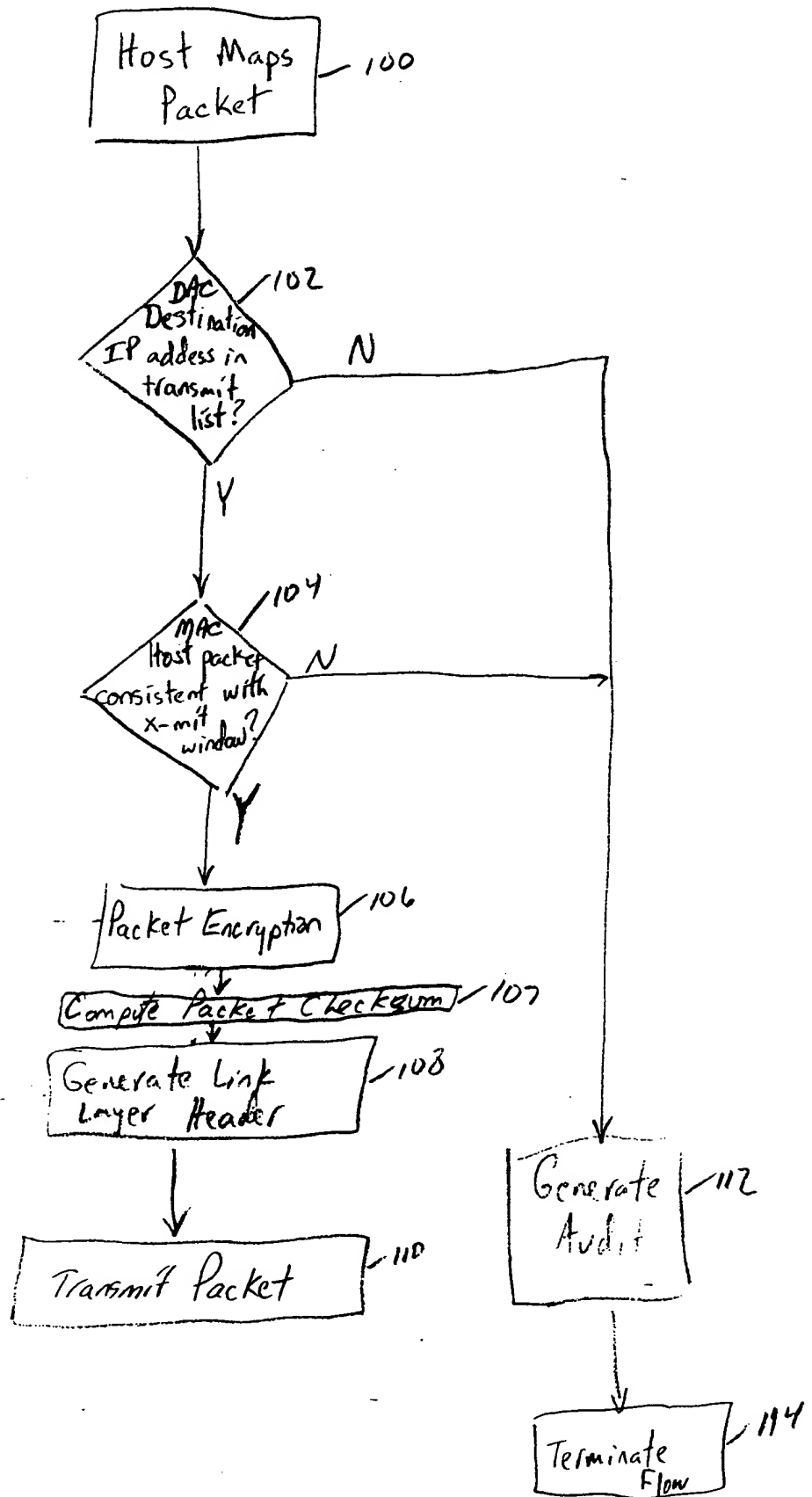


Fig. 9

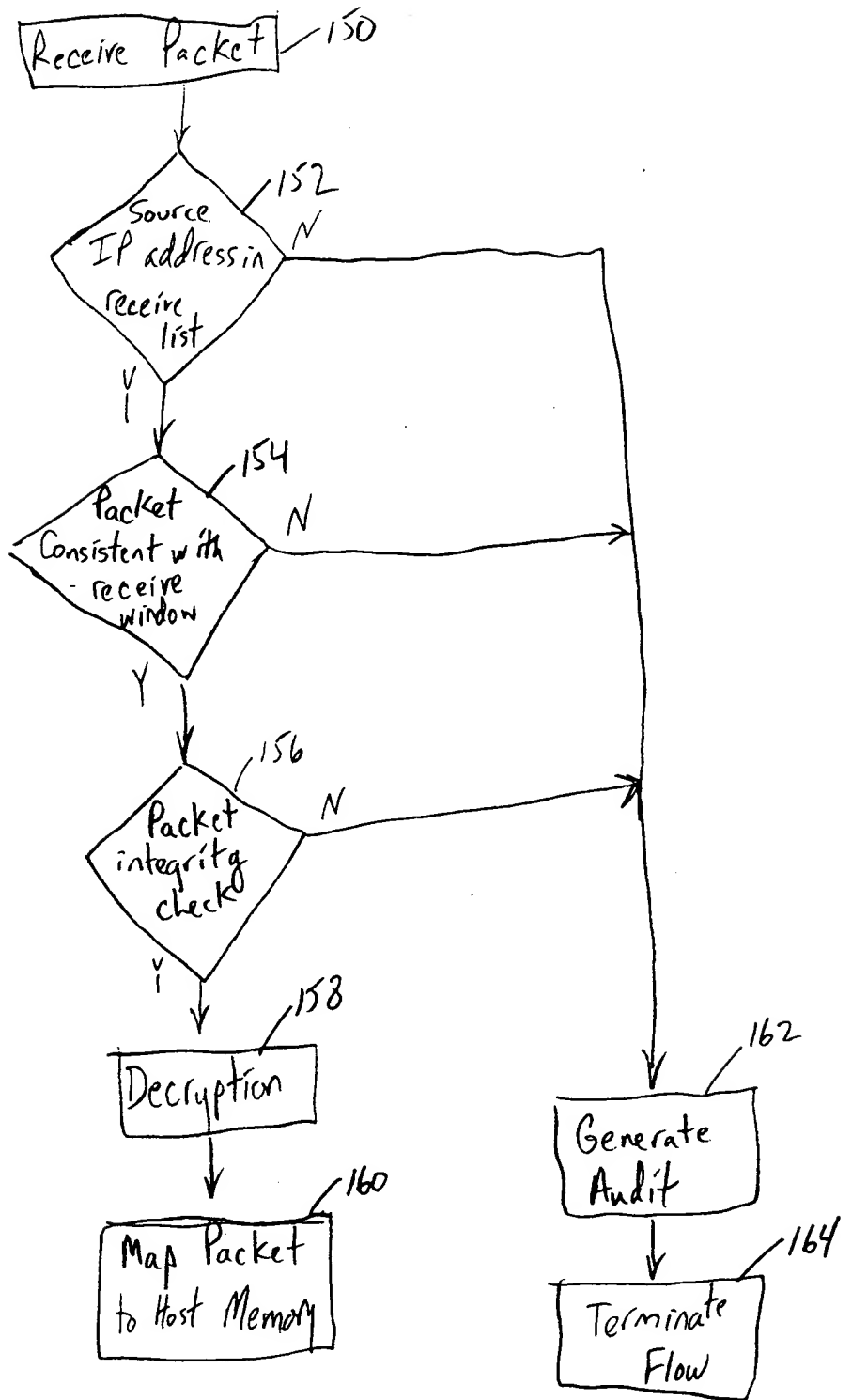
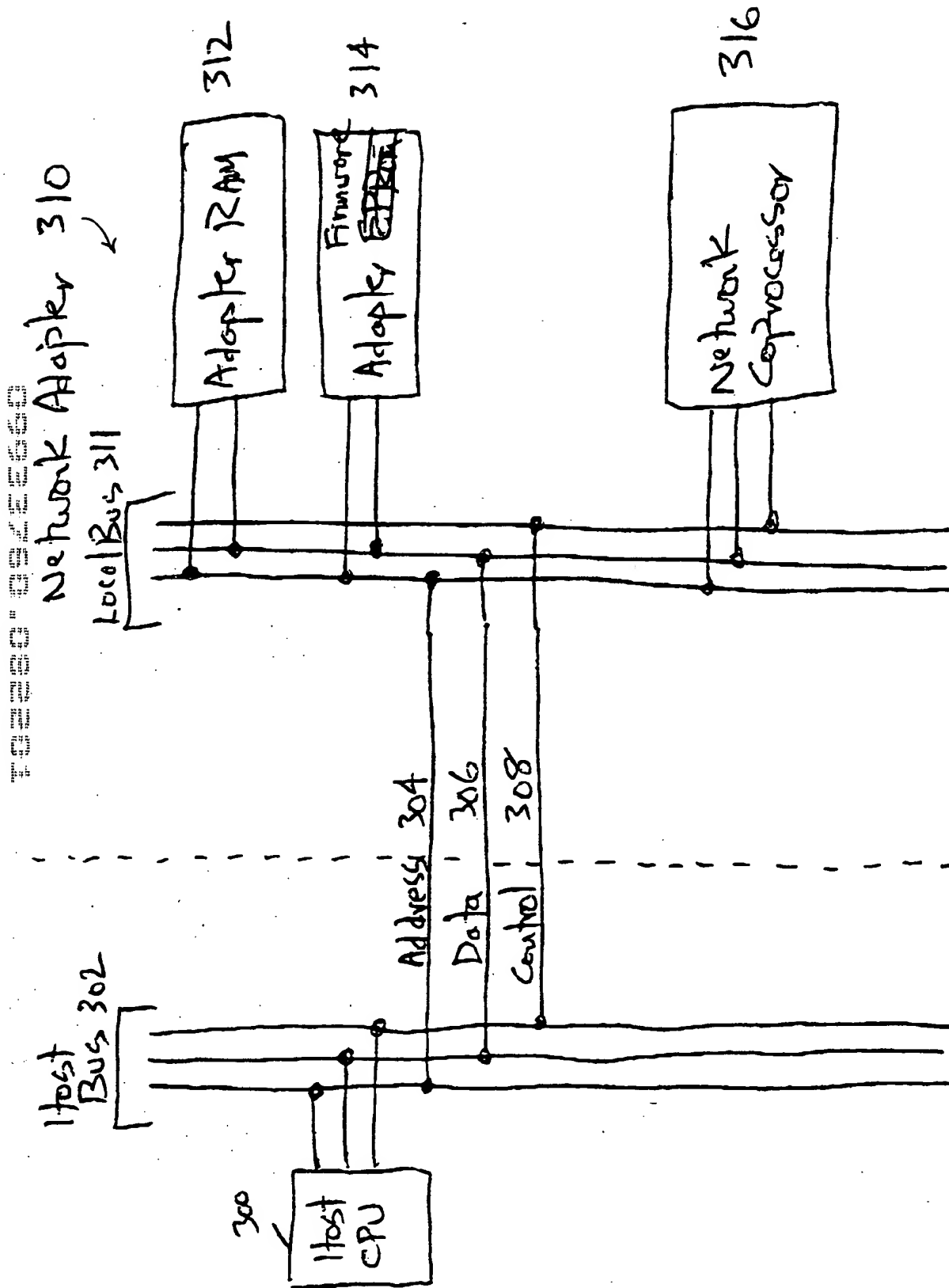


Fig. 10



Prior Art

Figure 11

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Host Bus 302

Security Device - 310

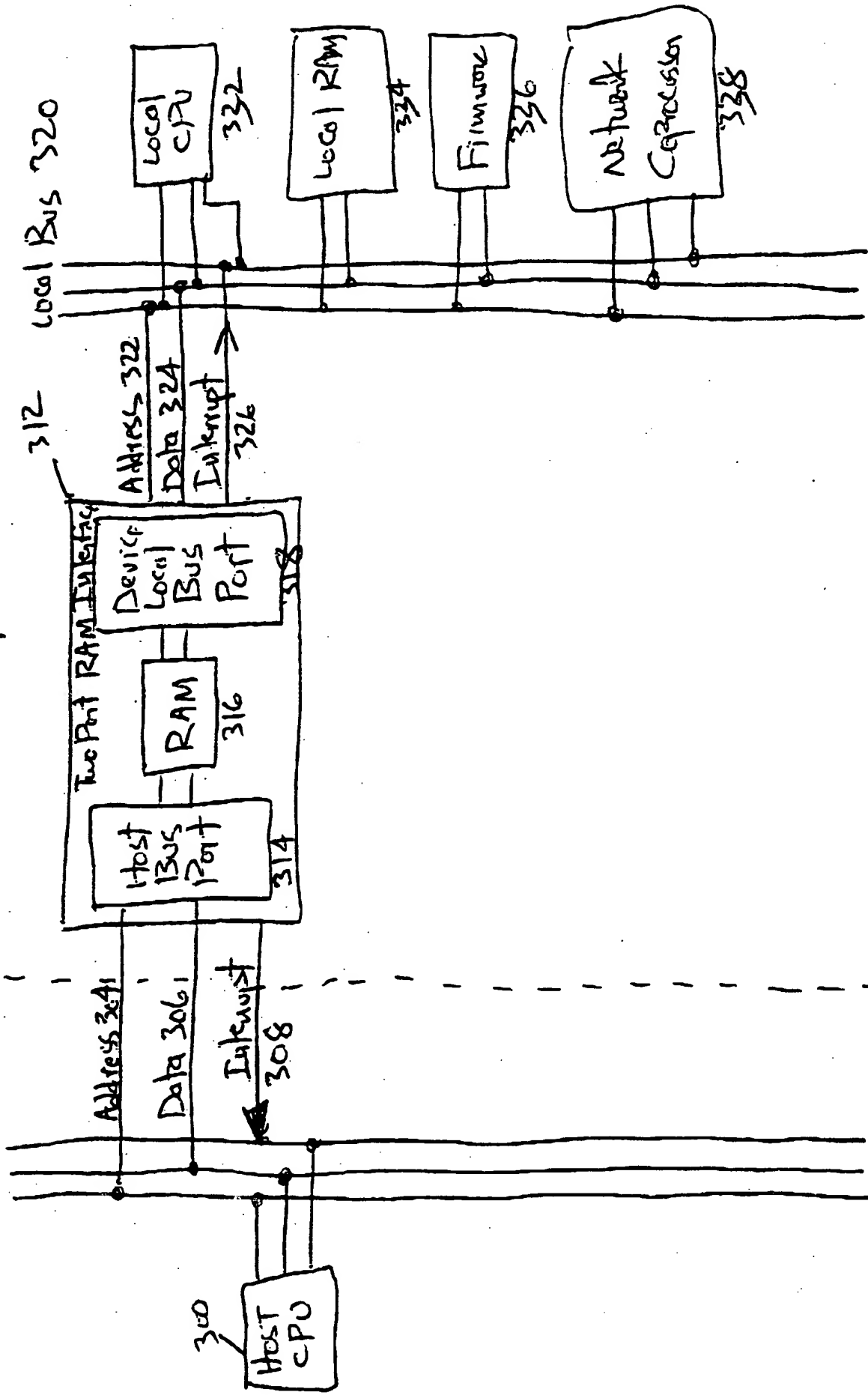


Fig 12-

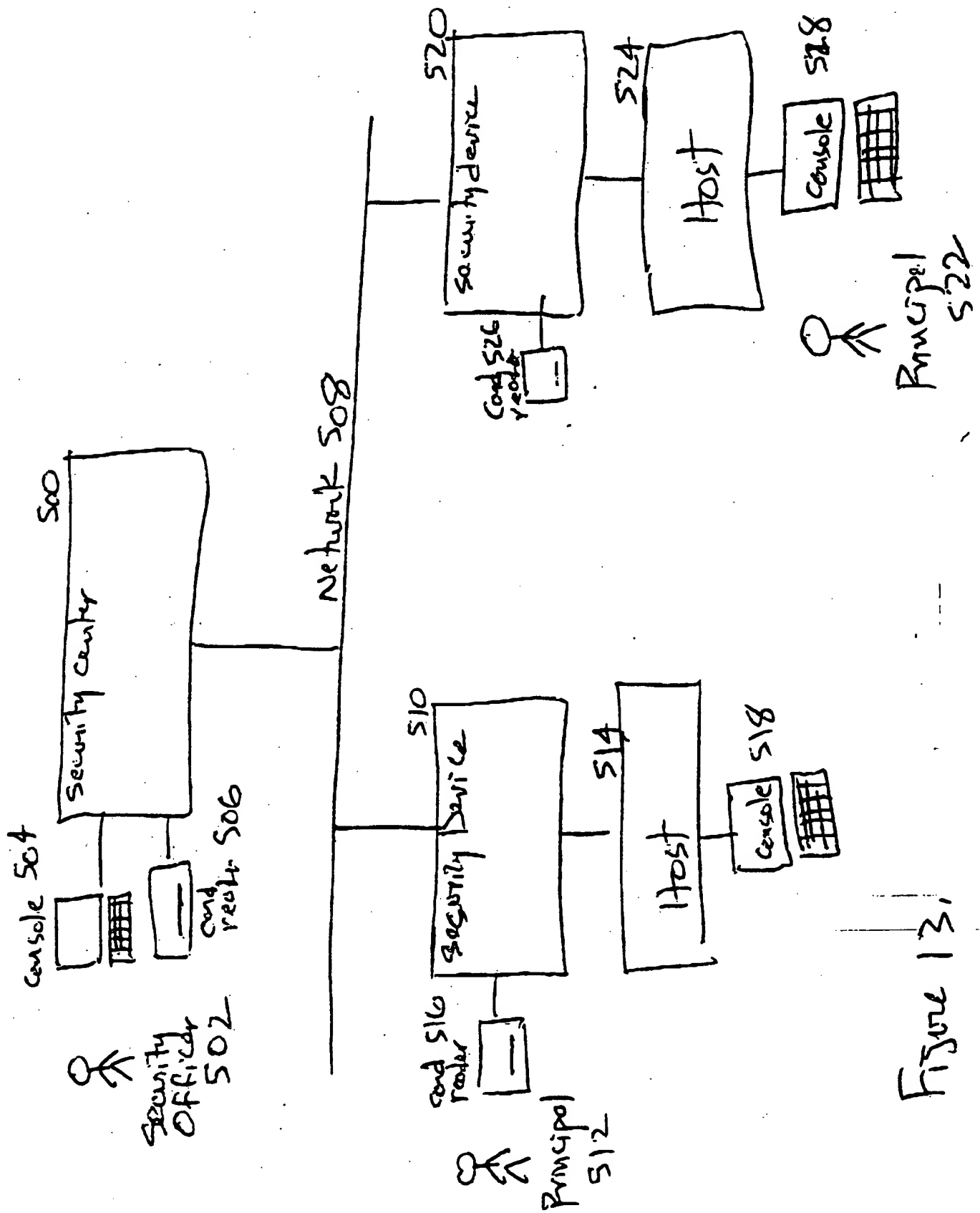
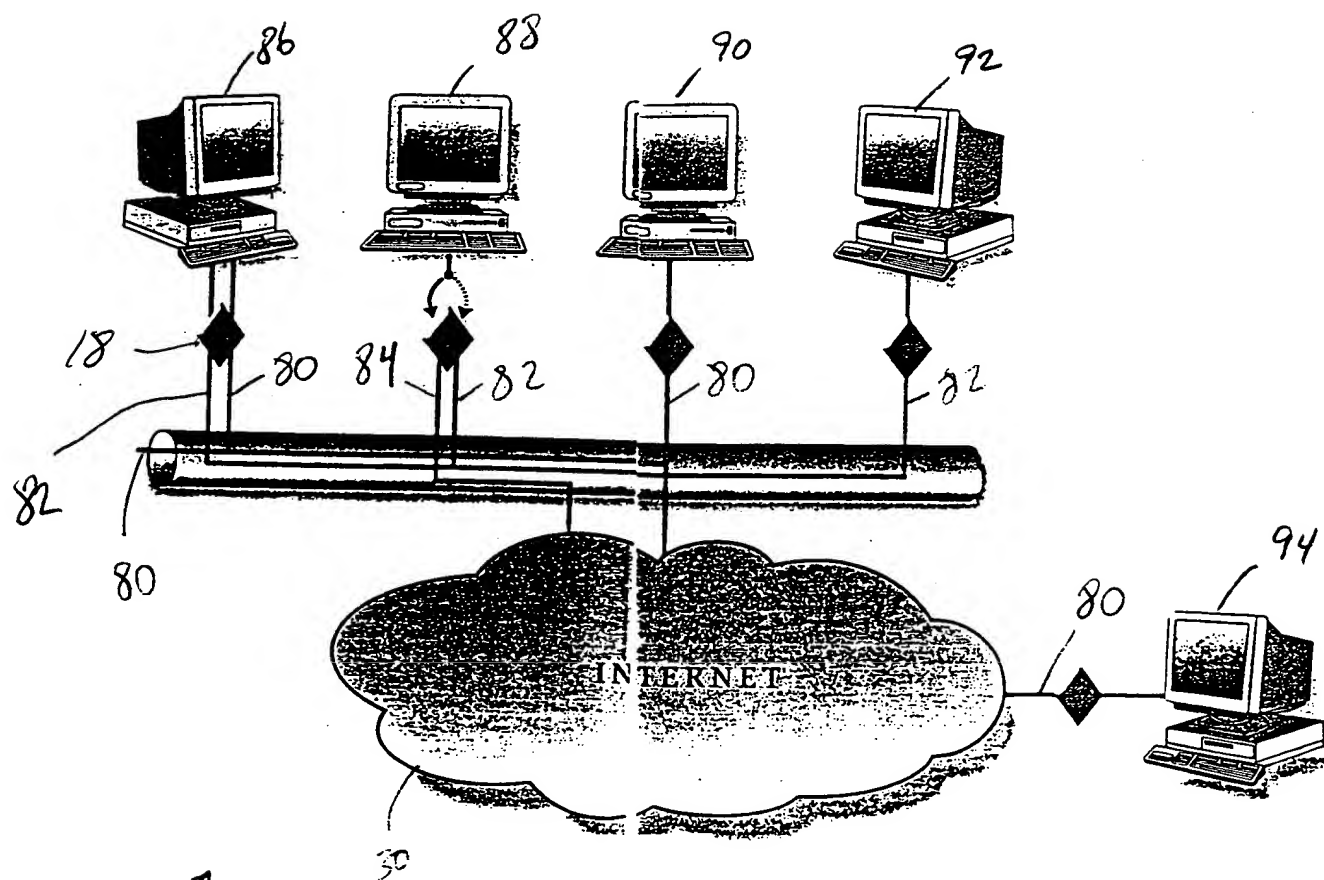


Figure 13,



10

Fig. 14